

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-041186

(43)Date of publication of application : 22.02.1988

(51)Int.Cl.

B41M 5/18

(21)Application number : 61-185829

(71)Applicant : RICOH CO LTD

(22)Date of filing : 06.08.1986

(72)Inventor : KUBO TAKASHI
HOTTA YOSHIHIKO

(54) REVERSIBLE THERMAL RECORDING MATERIAL

(57)Abstract:

PURPOSE: To obtain a reversible thermal recording material capable of forming a high contrast image and easy to control temp., by containing a metal salt of higher fatty acid in a thermal layer.

CONSTITUTION: In a reversible thermal recording material based on a resin base material and the org. low-molecular substance dispersed in said resin base material and having a thermal layer reversibly changing in its transparency dependent of temp., a metal salt of higher fatty acid is further contained in the thermal layer.

When the metal salt of higher fatty acid is added to the thermal layer, the org. low-molecular substance dispersed in the resin base material generates an eutectic phenomenon at the time of heating and the transparentizing temp. range T_1 ~ T_2 of the thermal layer is widened. Further, when the thermal layer is heated to temp. of T_3 or more and cooled to ambient temp. of T_0 or less to be made opaque, the growth of the crystal of the org. low-molecular substance is suppressed in the presence of the metal salt of higher fatty acid and a gathering state of fine crystals is obtained, and as a result, the light scattering of said part increases and, therefore, whiteness increases and contrast is enhanced.

